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REVOCATION OF PRIOR POWERS OF ATTORNEY APPOINTMENT OF NEW POWERS OF ATTORNEY AND

CHANGE OF CORRESPONDENCE ADDRESS

in re

Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 09/683,199

Filing Date: 11/30/2001

Publication No.: 2003-0102728

Publication Date: 6/5/2003

Patent No.: 6639334 Issue Date: 10/28/2003

Entitled: Jet Impingement Cooling of Electric Motor End-Windings

Siemens VDO Automotive Corporation, a Delaware corporation, as assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment averred per the attached Statement Under 37 CFR 3.73(b), hereby:

a) revokes all previous powers of attorney given in the above-identified application.

b) appoints all Practitioners associated with the Customer Number: 028524 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

c) requests change the correspondence address for the above-identified application to the address associated with the above-mentioned Customer Number.

19 July 2007

Laura M. Slenzak

Assistant Secretary for Intellectual Property Matters Siemens VDO Automotive Corporation

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SIEMENS VDO AUTOMOTIVE CORPORATION

Application No.: 09/683,199 Filing Date: 11/30/2001

Publication No.: 2003-0102728 Publication Date: 6/5/2003

Patent No.: 6639334 Issue Date: 10/28/2003

Entitled: Jet Impingement Cooling of Electric Motor End-Windings

Siemens VDO Automotive Corporation, a Delaware corporation, states that it is: the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at **Reel 019077**, **Frame 0840**, for which a copy thereof is attached.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was already submitted for recordation pursuant to 37 CFR 3.11.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

19 July 2007

Laura M Stenzak

Assistant Secretary for Intellectual Property Matters

Siemens VDO Automotive Corporation





Patent Assignment Details NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

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2	Patent #: Title: FAULT	<u>5469351</u> ISOLATION IN A	Issue Dt: IN INDUCTION M		Application #:	8270967	Filing Dt:	7/5/1994
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5	Patent #: Title: MACHI	<u>5619435</u> NE	Issue Dt:	4/8/1997	Application #:	8558950	Filing Dt:	11/13/1995
6	Patent #: Title: INDUC	<u>5739664</u> TION MOTOR DE	Issue Dt:		Application #:	8596846	Filing Dt:	2/5/1996
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10	Patent #: Title: VIBRAT	6072297	Issue Dt: N AND CONTROL		Application #: DRIVETRAIN	8926415	Filing Dt:	9/9/1997
11	Patent #: Title: VOLTA	<u>6047787</u> GE CONTROL ME	Issue Dt: ETHOD FOR AN E		Application #: R CONTROL SYSTEM		Filing Dt:	2/3/1998
12	Patent #: Title: POLE-F	5977679 PHASE MODULAT	Issue Dt: TED TOROIDAL W	• •	Application #: NINDUCTION MACH		Filing Dt:	3/5/1998
13	Patent #: Title: METHO	<u>5905349</u> DD OF CONTROL	Issue Dt: LING ELECTRIC N		Application #:		Filing Dt:	4/23/1998
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15	Patent #: Title: INCRE	6246343 MENT ENCODER	Issue Dt: FAILURE DETEC		Application #:	9263303	Filing Dt:	3/5/1999
16	Patent #: Title: VEHIC	6122588 LE SPEED CONTI	Issue Dt:		Application #: ABLE BRAKING TOR		Filing Dt:	10/19/1999
17	Patent #: Title: COUPL	<u>6307275</u> ED TO AN INDU	Issue Dt: STRIAL TURBO E		Application #:	9495443	Filing Dt:	1/31/2000
18	Patent #: Title: PEAK T	<u>6377019</u> ORQUE PER AM	Issue Dt: PERE METHOD FO		Application #: MOTOR VECTOR CO		Filing Dt:	2/10/2000



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Patent #:



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3/28/2007 Recorded: Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). Total properties: 104 19 Patent #: 6239575 Issue Dt: 5/29/2001 Application #: 9502869 Filing Dt: 2/11/2000 Title: Induction motor power/torque clamping for electric vehicle performance 20 Patent #: 6330143 Issue Dt: 12/11/2001 Application #: 9512480 Filing Dt: 2/23/2000 Title: Automatic over-current protection of transistors Patent #: 6169679 Issue Dt: 1/2/2001 Application #: 9532796 Filing Dt: 21 3/21/2000 Title: Method and system for synchronizing the phase angles of parallel connected inverters 9/18/2001 Application #: 9533296 Filing Dt: 22 Patent #: 6291960 Issue Dt: 3/22/2000 Title: Pulse width modulated motor control system and method for reducing noise vibration and harshness 6327524 Issue Dt: 12/4/2001 Application #: 9561546 Filing Dt: 23 4/28/2000 Title: System for high efficiency motor control Patent #: 6366049 4/2/2002 Application #: 9567592 Filing Dt: 24 **Issue Dt:** 5/10/2000 Title: Motor starter and speed controller system 25 Patent #: ` 6178103 Issue Dt: 1/23/2001 Application #: 9567965 Filing Dt: 5/10/2000 Title: Method and circuit for synchronizing parallel voltage source inverters 26 Patent #: 6212085 **Issue Dt:** 4/3/2001 Application #: 9593613 Filing Dt: 6/13/2000 Title: Integrated dual voltage sourced inverter 27 Patent #: 6362988 Issue Dt: 3/26/2002 Application #: 9606865 Filing Dt: 6/29/2000 Title: OPERATION WITH A GRID 5/29/2001 Application #: 9653478 Filing Dt: 28 Patent #: 6239997 Issue Dt: 9/1/2000 Title: Method and system for connecting and synchronizing a supplemental power source to a power grid Patent #: 6388419 Issue Dt: 5/14/2002 Application #: 9653654 Filing Dt: 9/1/2000 29 Title: Motor control system 30 Patent #: Issue Dt: 6/3/2003 Application #: 9682976 Filing Dt: <u>6572416</u> 11/5/2001 Publication #: <u>US20030087560</u> Pub Dt: 5/8/2003 Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN 31 Patent #: Issue Dt: 11/11/2003 Application #: 9682994 Filing Dt: 11/6/2001 6646837 Publication #: US20020190580 Pub Dt: 12/19/2002 Title: ACTIVE GROUND CURRENT REDUCTION DEVICE 32 Patent #: 6744158 Issue Dt: 6/1/2004 Application #: 9683018 Filing Dt: 11/8/2001 Publication #: <u>US20020089244</u> Pub Dt: 7/11/2002 Title: ELECTRIC MACHINE WITH COOLING RINGS 33 10/14/2003 Application #: 9683171 Filing Dt: Patent #: Issue Dt: 11/28/2001 <u>6631960</u> Publication #: <u>US20030132664</u> Pub Dt: 7/17/2003 Title: SERIES REGENERATIVE BRAKING TORQUE CONTROL SYSTEMS AND METHODS 34 Patent #: Issue Dt: 12/17/2002 Application #: 9683172 Filing Dt: 11/28/2001 6496393 Title: INTEGRATED TRACTION INVERTER MODULE AND BI-DIRECTIONAL DC/DC CONVERTER

Issue Dt:

6465977

10/15/2002 Application #: 9683176 Filing Dt:

11/29/2001



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Patent #:

Publication #: US20040095786

6778411

Issue Dt: Pub Dt:

Title: STARTUP APPARATUS AND METHOD FOR POWER CONVERTERS

5/20/2004



United States Patent and Trademark Office

Patent Assignment Details

NOTE:Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.

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8/17/2004 Application #: 10298473 Filing Dt:

11/18/2002





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abandoned applications please consult USPTO staff. Reel/Frame: 019077/0840 Pages: Recorded: 3/28/2007 Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). **Total properties: 104** 49 Patent #: <u>6714424</u> Issue Dt: 3/30/2004 Application #: 10306833 Filing Dt: 11/27/2002 Publication #: <u>US20040037097</u> Pub Dt: 2/26/2004 Title: DEAD-TIME COMPENSATION WITH NARROW PULSE ELIMINATION IN SOLID-STATE SWITCH DEVICES <u>6861835</u> Issue Dt: 3/1/2005 Application #: 10309793 Filing Dt: 12/3/2002 50 Patent #: Publication #: US20040104718 Pub Dt: 6/3/2004 Title: METHOD AND SYSTEM FOR NON-INVASIVE POWER TRANSISTOR DIE VOLTAGE MEASUREMENT Issue Dt: 9/12/2006 Application #: 10328934 Filing Dt: 12/23/2002 51 Patent #: 7106564 Pub Dt: Publication #: US20030147191 Title: DEVICES AND METHODS FOR DETECTING ISLANDING OPERATION OF A STATIC POWER SOURCE 3/13/2007 Application #: 10334198 Filing Dt: 52 Patent #: 7190145 Issue Dt: 12/30/2002 Publication #: US20030164692 Pub Dt: 9/4/2003 Title: METHOD AND APPARATUS FOR IMPROVING SPEED MEASUREMENT QUALITY IN MULTI-POLE MACHINES Issue Dt: 7/5/2005 Application #: 10334820 Filing Dt: 12/30/2002 Patent #: 6914354 53 Publication #: US20030173840 Pub Dt: 9/18/2003 Title: ASSEMBLY AND METHOD FOR DIRECT COOLING OF MOTOR END-WINDING 2/8/2005 Application #: 10345871 Filing Dt: 1/15/2003 6853940 Issue Dt: Publication #: US20030165036 **Pub Dt:** Title: ANTI-ISLANDING DEVICE AND METHOD FOR GRID CONNECTED INVERTERS USING RANDOM NOISE INJECTION 1/18/2005 Application #: 10345872 Filing Dt: 1/15/2003 55 Patent #: 6844701 Issue Dt: Publication #: US20030164028 Pub Dt: 9/4/2003 Title: OVERMODULATION SYSTEMS AND METHODS FOR INDUCTION MOTOR CONTROL Issue Dt: 8/30/2005 Application #: 10345894 Filing Dt: 6937483 1/15/2003 56 Patent #: Publication #: US20030198064 Pub Dt: 10/23/2003 Title: DEVICE AND METHOD OF COMMUTATION CONTROL FOR AN ISOLATED BOOST CONVERTER Issue Dt: 1/18/2005 Application #: 10346554 Filing Dt: 1/16/2003 57 Patent #: 6843749 Publication #: US20030155165 Pub Dt: Title: APPARATUS AND METHOD TO ACHIEVE MULTIPLE EFFECTIVE RATIOS FROM A FIXED RATIO TRANSAXLE 3/21/2006 Application #: 10346561 Filing Dt: 58 Patent #: 7014928 Issue Dt: 1/16/2003 Publication #: US20030157379 Pub Dt: 8/21/2003 Title: DIRECT CURRENT/DIRECT CURRENT CONVERTER FOR A FUEL CELL SYSTEM 5/17/2005 Application #: 10346724 Filing Dt: 1/16/2003 59 Patent #: 6894450 **Issue Dt:** Pub Dt: Publication #: US20030214266 11/20/2003 Title: CIRCUIT CONFIGURATION FOR PERMANENT MAGNET SYNCHRONOUS MOTOR CONTROL 3/14/2006 Application #: 10360832 Filing Dt: 2/7/2003 7012822 **Issue Dt:** Publication #: US20030214826 Pub Dt: 11/20/2003 Title: INTEGRATED TRACTION INVERTER MODULE AND DC/DC CONVERTER 61 Patent #: 6890218 Issue Dt: 5/10/2005 Application #: 10443646 Filing Dt: 5/21/2003

Pub Dt:

Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN

2/19/2004





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63	Patent #:	6936991	Issue Dt:	8/30/2005	Application #:	10449824 Filing	g Dt: 5/30/2003		
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64	Patent #:	<u>6845020</u>	Issue Dt:	1/18/2005	Application #:	10453920 Filin	g Dt: 6/2/2003		
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	Title: POWER CONVERTER SYSTEM								
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	Publication #:	US20040227231	Pub Dt:	11/18/2004					
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68	Patent #:	6987670	Issue Dt:	1/17/2006	Application #:	10642424 Filin	g Dt: 8/14/2003		
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69	Patent #:	7058755	Issue Dt:	6/6/2006	Application #:	10658124 Filin	g Dt: 9/9/2003		
	Publication #:	US20050055496	Pub Dt:	3/10/2005					
	Title:	EEPROM EMULATION IN	FLASH MEMOR	Υ					
70	Patent #:		Issue Dt:		Application #:	10658804 Filin	g Dt: 9/9/2003		
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	iitie:	Tri-level inverter							
71	Patent #:	NONE	Issue Dt:		Application #:	10664808 Filin	g Dt: 9/17/2003		
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72	Patent #:	<u>7019996</u>	Issue Dt:	3/28/2006	Application #:	10688834 Filin	g Dt: 10/16/2003		
	Publication #:	US20050083714	Pub Dt:	4/21/2005					
	Title:	POWER CONVERTER EN	1PLOYING A PLA	NAR TRANSFOR	MER				
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73	Patent #:		Issue Dt:	54013005	Application #:	10/13552 Filin	g Dt: 11/14/2003		
		US20050105229	Pub Dt:	5/19/2005					
	Title: Two-level protection for uninterrupted power supply								
74	Patent #:	6940735	Issue Dt:	9/6/2005	Application #:	10713767 Filin	g Dt: 11/14/2003		
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3/30/2005

Title: Method, apparatus and article for bi-directional DC/DC power conversion

Application #: 11192321 Filing Dt: 94 Patent #: NONE Issue Dt: 7/28/2005

Publication #: US20060022541 Pub Dt: 2/2/2006

Title: Rotor hub and assembly for a permanent magnet power electric machine

95 Patent #: 3/6/2007 Application #: 11245723 Filing Dt: 10/6/2005 7187558 Issue Dt:

Pub Dt: 2/9/2006 Publication #: US20060028806

Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE

Issue Dt: Application #: 11250180 Filing Dt: 96 Patent #: NONE 10/12/2005

Publication #: US20070080655 **Pub Dt:** 4/12/2007

Title: Method, apparatus and article for detecting rotor position

Application #: 11255162 Filing Dt: 97 Patent #: NONE Issue Dt: 10/20/2005

Publication #: US20080152085 Pub Dt: 7/13/2006

Title: Power system method and apparatus

98 Patent #: NONE Issue Dt: Application #: 11262519 Filing Dt: 10/27/2005

Publication #: <u>US20070097569</u> Pub Dt: 5/3/2007

Title: System and method of over voltage control for a power system

Application #: 11282301 Filing Dt: 11/18/2005 Patent #: NONE **Issue Dt:**

Pub Dt: Publication #: <u>US20070114954</u> 5/24/2007

Title: System and method of commonly controlling power converters

100 Patent #: 7193860 **Issue Dt:** 3/20/2007 Application #: 11292870 Filing Dt: 12/2/2005

Publication #: US20060082983 Pub Dt: 4/20/2006

Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE





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Total properties: 104

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104

101 Patent #: NONE Issue Dt:

Application #: 11317658 Filing Dt: 12/22/2005

Publication #: <u>US20070147097</u>

Pub Dt:

6/28/2007

Title: house keeping power supply

Issue Dt:

Application #: 11318166 Filing Dt:

12/23/2005

Publication #: US20060099463

Patent #: NONE

Pub Dt:

5/11/2006

Title: Direct current/direct current converter for a fuel cell system

Patent #: NONE

Issue Dt:

Application #: 11472486 Filing Dt:

Publication #: <u>US20070012492</u>

Pub Dt: 1/18/2007

6/20/2006

Title: Power generation system suitable for hybrid electric vehicles

Patent #: NONE

Issue Dt:

Application #: 11480311 Filing Dt:

6/29/2006

Publication #: US20070016340

Pub Dt: 1/18/2007

Title: Controller method, apparatus and article suitable for electric drive

Assignor

1 BALLARD POWER SYSTEMS CORPORATION

Assignee

1 SIEMENS VDO AUTOMOTIVE CORPORATION

2400 EXECUTIVE HILLS BLVD. AUBURN HILLS, MICHIGAN 48326-2980

Correspondence name and address

ELSA KELLER SIEMENS CORPORATION INTELLECTUAL ET AL 170 WOOD AVENUE SOUTH ISELIN, NJ 08830

Search Results as of: 07/19/2007 02:11 PM

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350 v.2.0.1 Web interface last modified: April 20, 2007 v.2.0.1